RECEIVED CENTRAL FAX CENTER

AUG 2 2 2007

10/618,049 200300109-1

7

REMARKS

Claims 1-30 are currently pending in the present application. Claims 21-30 have previously been withdrawn. Claim 1 has been amended. Claims 13, 16, and 17 have been canceled. Reconsideration of the application is respectfully requested in view of the following responsive remarks.

For the Examiner's convenience and reference, Applicants' remarks are presented in the order in which the corresponding issues were raised in the Office Action.

In the office action of June 11, 2007, the following actions were taken:

- (1) Claims 1-4, 6-18, and 20 were rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,120,588 (hereinafter "Jacobson") in view of U.S. Pat. No. 4,301,196 (hereinafter "McCormack");
- (2) Claim 5 was rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobson in view of McCormack and further in view of JP 08-319575 (hereinafter "Takeda"); and
- (3) Claim 19 was rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobson in view of McCormack and further in view of U.S. Pat. No. 3,918,927 (hereinafter "Wells").

It is respectfully submitted that the presently pending claims be examined and allowed.

Rejections Under 35 U.S.C. § 103

The Examiner has rejected claims 1-20 under 35 U.S.C. 103(a) as being unpatentable over several references.

The Applicant does not deem it necessary to recite the entire case law standard required in order to establish a prima facie case of obviousness. However, the Applicant would like to briefly remind the Examiner of the required three criteria for a prima facie case of obviousness, namely 1) that the asserted references as modified or combined must teach or suggest each and every element of the claimed invention, 2) that the asserted references as modified or combined must provide a sufficient likelihood of successfully making the modification or combination, and 3) that the Examiner must identify a reason for the modification or combination asserted.

10/618,049 . 200300109-1

8

Specifically, the Examiner has rejected claims 1-20 as being obvious in view various combinations of Jacobson, McCormack, Wells, and Takeda. As such, a brief description of these references is believed to be in order.

Jacobson.

Jacobson teaches electronically active inks for electroless plating. The inks may be applied by an ink jet system. However, as noted by the Examiner, Jacobson does not teach an electroless active layer.

McCormack

McCormack teaches electroless copper deposition. The method includes the use of stannous chloride and palladium chloride.

Wells

Wells teaches a standard electroplating technique. The Examiner alleges that Wells discloses the use of an acidic palladium chloride solution to mar the surface of the substrate. However, Wells teaches that the acidic palladium chloride solution is used "to remove the tin salts." See col. 11, line 60. As such, Wells does not teach specific marring of the substrate.

Takeda

Takeda teaches the use of Pd(NH₂)₄Cl₂ as a palladium salt for electroless plating over carbon fine grains.

The Examiner has rejected the pending claim set over Jacobson in combination with several references. The rejections include Jacobson as the primary reference in combination with McCormack as a secondary reference. As previously discussed, Jacobson teaches an ink jet system for printing inks containing metal ions and a reducing agent. However, as noted by the Examiner, Jacobson does not teach an electroless active layer. It is also pointed out that Jacobson does not ink-jet its ink onto an electroless active layer, nor is the reducing agent contacted with the metal composition on the electroless active layer. The Examiner uses McCormack, which

10/618,049 200300109-1

9

teaches the use of stannous chloride and palladium chloride as a sensitizing and seeding solution, to allegedly cure the at least three missing elements of Jacobson.

The Applicant has amended claim 1 to include that the electroless active layer is formed by ink-jetting an electroless initiator. As such, the presently amended claim set contains a fourth element missing from the present combination of references. Specifically, none of the cited references alone or in combination, i.e., Jacobsen, McConnack, Wells, and Takeda, teach the step of forming an electroless active layer by ink-jetting an electroless initiator,.

As the Examiner has noted, Jacobsen does not teach an electroless active layer. Therefore, the Examiner has combined Jacobsen with McCormack to cure the deficiency as McCormack allegedly teaches an electroless active layer. However, there is absolutely no teaching in McCormack regarding ink-jetting. Therefore, McCormack alone or in combination with Jacobsen does not teach the element of forming an electroless active layer by ink-jetting an electroless active initiator. Additionally, Wells contains no teaching of forming an electroless active layer by ink-jetting an electroless initiator and was cited by the Examiner for the teaching of an electroless active layer by etching. Therefore, Wells does not cure the deficiency of Jacobsen and McCormack. Furthermore, Takeda contains no teaching of forming an electroless active layer by ink-jetting an electroless initiator and was cited by the Examiner for the teaching of Pd(NII₃)₄CL₂ as the metal salt. Therefore, Takeda does not cure the deficiency of Jacobsen and McCormack. As such, the Applicant submits that the present combination of references does not teach each and every element of amended claim 1.

In view of the foregoing, Applicants believe that claims 1-12, 14-15, and 18-20 present allowable subject matter and allowance is respectfully requested. If any impediment to the allowance of these claims remains after consideration of the above remarks, and such impediment could be removed during a telephone interview, the Examiner is invited to telephone the undersigned attorney at (801) 566-6633 so that such issues may be resolved as expeditiously as possible.

10/618,049 200300109-1

10

Please charge any additional fees except for Issue Fee or credit any overpayment to Deposit Account No. 08-2025.

Dated this 22nd day of August, 2007.

Respectfully submitted,

Cary P. Oakeson Attorney for Applicant Registration No. 44,266

THORPE NORTH & WESTERN, LLP 8180 South 700 East, Suite 200 Sandy, Utah 84070 (801) 566-6633

On Behalf Of: HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, CO 80527-2400